

REPLACEMENT SHEET

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Polypeptide	Amino acid sequence					SEQ ID NO:	
Z _{wt}	VDNKENKEQQ	NAFYELHLPL	NLNEEQRNAF	IQSLKDDPSQ	SANLLAEAKK	LNDQAQPK	1
Z _{HER2 A}	VDNKENKELR	QAYWEIQALP	NLNWTQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	2
Z _{HER2 B}	VDNKENKEPK	TAYWEIVKLP	NLNPEQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	3
Z _{HER2 C}	VDNKENKEPR	EAYWEIQRLP	NLNKQKAAAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	4
Z _{HER2 D}	VDNKENKEWV	QAGSEIYNLP	NLNRAQMRAF	IRSLSDDDPSQ	SANLLAEAKK	LNDQAQPK	5
Z _{HER2:101}	VDNKENKEMR	HAYWEIVKLP	NLNPRQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	6
Z _{HER2:102}	VDNKENKEMR	KAYWEIVLLP	NLNRRQSRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	7
Z _{HER2:103}	VDNKENKEMR	HAYWEIATLP	NLNRVQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	8
Z _{HER2:104}	VDNKENKEFR	TAYWEIVLLP	NLNPGQIRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	9
Z _{HER2:105}	VDNKENKELR	TAYWEIVLLP	NLNTWQIRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	10
Z _{HER2:106}	VDNKENKEPR	KAYWEIATLP	NLNPAQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	11
Z _{HER2:107}	VDNKENKEMR	NAYWEIATLP	NLNMQQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	12
Z _{HER2:108}	VDNKENKELR	TAYWEIVGLP	NLNHFQVRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	13
Z _{HER2:109}	VDNKENKELR	TAYWEIVLLP	NLNWQIRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	14
Z _{HER2:110}	VDNKENKEIR	NAYWEIATLP	NLNMQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	15
Z _{HER2:112}	VDNKENKEFR	KAYWEIVVLP	NLNRMQIRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	16
Z _{HER2:113}	VDNKENKEFR	TAYWEIVLLP	NLNREQGRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	17
Z _{HER2:114}	VDNKENKEMR	TAYWEIATLP	NLNKQIRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	18
Z _{HER2:115}	VDNKENKEFR	NAYWEIVVLP	NLNRRQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	19
Z _{HER2:116}	VDNKENKEFR	NAYWEIAKLP	NLNNGQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	20
Z _{HER2:118}	VDNKENKEFR	QAYWEIATLP	NLNHSQTRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	21
Z _{HER2:120}	VDNKENKEPR	HAYWEIVKLP	NLNSLQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	22
Z _{HER2:121}	VDNKENKELR	TAYWEIVGLP	NLNSRQSRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	23
Z _{HER2:122}	VDNKENKELR	TAYWEIAGLP	NLNPKQKRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	24
Z _{HER2:123}	VDNKENKEMR	KAYWEITQLP	NLNTROTRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	25
Z _{HER2:124}	VDNKENKEFR	KAYWEIVLLP	NLNWEQNAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	26
Z _{HER2:125}	VDNKENKEFR	KAYWEITQLP	NLNREQNAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	27
Z _{HER2:126}	VDNKENKEMR	HAYWEIATLP	NLNTNQSRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	28
Z _{HER2:127}	VDNKENKEMR	NAYWEIVGLP	NLNRWQSRAF	IRSLYDDDDPSQ	SANLLAEAKK	LNDQAQPK	29

FIG. 1A

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Polypeptide	Amino acid sequence						SEQ ID NO:
ZHER2:129	VDNKFNKELR	NAYWEIVKLP	NLNPWQHRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	30
ZHER2:130	VDNKFNKELR	TAYWEIVKLP	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	31
ZHER2:133	VDNKFNKELR	TAYWEIVKLP	NLNDYQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	32
ZHER2:135	VDNKFNKELR	TAYWEITQLP	NLNLQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	33
ZHER2:137	VDNKFNKELR	TAYWEIAGLP	NLNAQQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	34
ZHER2:138	VDNKFNKELR	TAYWEIVRLP	NLNAQQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	35
ZHER2:139	VDNKFNKELR	NAYWEIVTLP	NLNTQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	36
ZHER2:140	VDNKFNKELR	NAYWEIVKLP	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	37
ZHER2:148	VDNKFNKELR	TAYWEIALLP	NLNNMQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	38
ZHER2:153	VDNKFNKELR	TAYWEIALLP	NLNNMQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	39
ZHER2:158	VDNKFNKELR	KAYWEIALLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	40
ZHER2:159	VDNKFNKELR	KAYWEIALLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	41
ZHER2:162	VDNKFNKELR	KAYWEIVGLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	42
ZHER2:165	VDNKFNKELR	TAYWEIVGLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	43
ZHER2:167	VDNKFNKELR	TAYWEIVRLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	44
ZHER2:168	VDNKFNKELR	HAYWEIVRLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	45
ZHER2:169	VDNKFNKELR	KAYWEIVTLP	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	46
ZHER2:170	VDNKFNKELR	TAYWEIALLP	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	47
ZHER2:171	VDNKFNKELR	TAYWEIVTLP	NLNTQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	48
ZHER2:172	VDNKFNKELR	KAYWEIQVLP	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	49
ZHER2:177	VDNKFNKELR	KAYWEIVLPL	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	50
ZHER2:178	VDNKFNKELR	NAYWEIVGLP	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	51
ZHER2:179	VDNKFNKELR	KAYWEIVKLP	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	52
ZHER2:180	VDNKFNKELR	TAYWEIVRLP	NLNSQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	53
ZHER2:205	VDNKFNKELR	NAYWEIVLPL	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	54
ZHER2:207	VDNKFNKELR	TAYWEIVLPL	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	55
ZHER2:209	VDNKFNKELR	NAYWEIALLP	NLNVQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	56
ZHER2:222	VDNKFNKELR	KAYWEIVKLP	NLNSQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	57
ZHER2:223	VDNKFNKELR	TAYWEIVKLP	NLNTQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	58
ZHER2:225	VDNKFNKELR	TAYWEIVSLP	NLNNQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	59
ZHER2:226	VDNKFNKELR	NAYWEIVKLP	NLNPQSRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	60

FIG. 1B

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Polypeptide	Amino acid sequence						SEQ ID NO:
Z _{HER2} :227	VDNKENKEMR	QAYWEIALLP	NLNKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	61
Z _{HER2} :229	VDNKENKEFR	TAYWEIAVLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	62
Z _{HER2} :230	VDNKENKECR	TAYWEIVKLP	NLNNAQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	63
Z _{HER2} :232	VDNKENKEPK	TAYWEIVVLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	64
Z _{HER2} :233	VDNKENKEMR	NAYWEIVTLP	NLNKQIRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	65
Z _{HER2} :234	VDNKENKEMR	KAYWEIATLP	NLNKSQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	66
Z _{HER2} :235	VDNKENKEFR	TAYWEIVTLP	NLNKQTRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	67
Z _{HER2} :236	VDNKENKELR	TAYWEIVGLP	NLNTRQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	68
Z _{HER2} :237	VDNKENKELR	HAYWEIVQLP	NLNREQGRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	69
Z _{HER2} :239	VDNKENKEFR	HAYWEIILKP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	70
Z _{HER2} :240	VDNKENKEMR	TAYWEIVSLP	NLNTLQSRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	71
Z _{HER2} :261	VDNKENKEMR	KAYWEIQGLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	72
Z _{HER2} :264	VDNKENKEMR	NAYWEIAKLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	73
Z _{HER2} :265	VDNKENKEMR	HAYWEIVGLP	NLNMIQORAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	74
Z _{HER2} :271	VDNKENKELR	NAYWEIVKLP	NLNRAQNRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	75
Z _{HER2} :278	VDNKENKELR	TAYWEIILKP	NLNRYQRRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	76
Z _{HER2} :0024*	VDNKENKEPR	EAYWEIQRLP	NLNKQKRAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	77
Z _{HER2} :0434	VDNKENKEMY	AAYWEIIDLP	NLNTQIHAF	IRSLYDDPSQ	SANLLAEAKK	LNDQAQPK	78
Z _{HER2} :3053	VDNKENKETR	SAYWEIVNLP	NLNKQGRHAF	IKSLYDDPSQ	SANLLAEAKK	LNDQAQPK	79

FIG. 1C